

GNU/Linux goal

Rationale:

To continue to use GNU/Linux operating system and free software as it has proven over the last 2+ years at Warrington school to be reliable, easy to use, setup and install.

It is cost effective as the software is free and if a computer breaks down then it can be replaced by one of the many free machines available and not needing a technician to fix.

We should be allowed to make our own choice over operating systems and software.

By choosing to use free software/operating systems we should receive payment from the Ministry of Education that would otherwise be used for licenses.

We are able to keep older computers out of New Zealand's landfills longer.

To empower our community of teachers, parents and children to install and run free OS and software on computers.

Allows the school and its community to alter the software for its own purpose and to share this with others.

Use less electricity by using Edubuntu terminal server networks.

We need to do the following for continual change towards the eventual goal of totally running GNU/Linux and "free software" by 2010

Milestones	Personnel involved and completed by date	Indicators of success	Comment
To use school GNU/Linux running laptops to record student data, teacher planning, and sharing of learning goals.	All teachers by the end of October 2008	Problem solve to find solutions to their computer inquiries Create a timeline rating of computer skills and confidence of teachers now - future	All teacher's laptops are running Ubuntu and saving to and from server, using school emails. Beginning to use wikieducator June 08 as a means of sharing ideas.
To support teachers to integrate their GNU/Linux running laptops into daily teaching programmes.	All teachers by the end of October 2008	Examples of how teachers are effectively using laptops in their programmes now – future Adding software and printers	
Provide professional development for staff in the use and philosophy of GNU/Linux and “free software”.	Nathan to organise by end of term 3. Participation of all staff.	May 14th Open Office clip art, shortcut on panel, connecting to server	
2009 goal - office using GNU/Linux operating system and free software	Melissa Nathan	Moving onto using Open Office for newsletter	
2009 goal – children using GNU/Linux operating system and free software	Nathan and teaching staff	All children able to use GNU/Linux computers throughout school	
2009 goal – review computer use and access for pupils		Children will have balanced access to computers as part of their everyday schooling experience	
Warrington School to totally run on a GNU/Linux operating system with “free software”* applications by 2010. *free as in free speech not free beer	All staff and pupils by the time the MOE renegotiates their Microsoft license agreements in December 2009.	To have only GNU/Linux operating computers throughout the school	

Setting up of GNU/Linux operating systems in the school

Objective	Do by date and by whom	Information
Back-ups of data from server to office machine for all drives. Teacher, storage, rooms, and teachers personal drives in case of laptop stolen, server water damaged etc	A R N to work out best system and be using it by the end of term 2 2008	BOT approved spending of up to \$600 at May meeting
Installing or reinstalling new operating system	All teaching staff, some children and community members end of 2008	Open night on installing Teach pupils how to do this during school time Aiming for August 2008
Tweaks after installing	Nathan to document by end of 2008	Firefox - Edit-Preferences-Advanced-Network-Settings-Auto Detect Proxy-Ok-Main-In Firefox address bar-google.co.nz-homepage-use current-close System-Administration-Synaptic Package Manager-Search-Openoffice Clip Art-Mark for installation-apply- Applications-office-OpenOffice Word Processor-Tools-Options-Language Settings-Languages-set all to English UK-Writing Aids-Edit-English UK-Close-Ok
Terminal server set up, specs for terminals http://www.linuxjournal.com/article/8822	N R end of term 2 2008	1. https://wiki.edubuntu.org/HardyClassroomServer 2. Then in terminal - ltsp-update-sshkeys followed by ltsp-update-image We are running a AMD 2800 with 2Gb of Ram with 7 terminals
Connecting to server	R end of term 3 2008	What we are using
Wires and wireless	R N end of term 3 2008	What we are using
Hubs and switches	R N end of term 3 2008	What we are using

Setting up of GNU/Linux security systems in the school

Objective	Do by date and by whom	Information
How to set security patches and updates on all computers	N R end of term 2 2008	<p>System – Administration - Synaptic Package Manager - Settings – Preferences – Network – Manual proxy configuration – 192.168.2.1 – Port 8080 – Authentication – user name and password – apply – ok - close</p> <p>System – Administration - Synaptic Package Manager - Settings – Repositories – Updates – All boxes ticked – Check for updates weekly – Install security updates without confirmation – close</p> <p>Mozilla Firefox – Edit – Preferences – Advanced – Network – Settings – Auto detect proxy settings for this network – ok - close</p>
Security measures passwords	A end of term 3 2008 on all computers	<p>1- Username: “person”, user only account, password mostly protects your personal data.</p> <p>2- Username: Install-Only, Administrator account, tricky password to protect the system from being compromised and stuffing up entire networks that it may connect to tricky password: 7 characters or more, mixed with letters, numbers, mixed case (gG). Not a name or place etc, even with numbers on the end, these can be guessed by power cracking tools in under a second.</p>
Security log on	A end of term 3 2008	
Security trusted applications	R N end of term 3 2008	
Future proofing personnel and documentation for continued use of GNU/Linux and free software	A R N developing this documentation completed by the end of 2008	

Use of GNU/Linux software, applications and peripherals in the school

Objective	Do by date and by whom	Information
Video playing and editing into movies	A hints N to play ASAP	
Synchronizing and vpn – connecting to school from home	A on all laptops by end of term 2 2008	Decided to move away from VPN and teach the back up of data to server or DVD and to also use Grsync for transferring files between laptops and server.
Using peripherals – cameras, projectors	N ASAP	Purchasing products that support the use of Linux. Using school Canon cameras and uploading photos to computers and into folders on the server.
Applications – office, for children, for teachers	N staff meetings and with pupils - ongoing	Open office backgrounds and clipart
School reports, mail merge and newsletter	End of term 2 2008 for reports and term 3 newsletter	Completed and all newsletters going out using open office. Easy ability to create into PDF format for emailing to parents. Mid year reports 2008 success.
Desktop background	Share at staff meeting	Open photo with F-Spot photo viewer – edit set as wall paper
Printing to all printers - Ricoh, Kyocera, in colour, black and white, duplex, A3	N approach Ricoh about supporting Linux term 3 2008	System-administration-printing-new printer-kyocera- System-administration-printing-new printer-kyocera-
Koha program, back-up, how to manual	A and Vicky end of term 4 2008	
Picasa uploads	N experiment end 2008	Working July 10th using latest version for Gnu/Linux and this has superior printing abilities allowing for easy multi photos per page prints.

Needs of the Warrington school community with using GNU/Linux and free software

Objective	Do by date and by whom	Information
Principal's and teacher's require	N to gather data from staff ASAP	
Secretary requires	N to gather data from staff ASAP	
Teacher aide requires	N to gather data from staff ASAP	
Parent's require	Parent evening and night classes	
Pupil's require	N to gather data from staff ASAP	
Community requires	N to gather data from staff ASAP	

Procedures to support the school running GNU/Linux operating systems

Objective	Do by date and by whom	Information
Protocols for good use with teachers and pupils with saving, internet, emails etc	A R N M in line with policy ASAP	
Protocol for teachers using VPN at home to access school files	N and teachers ASAP	
Internet filtering	A end of term 2 2008	Extend log files
School emails – thunderbird, gmail, calendar	N end of term 3 2008	All staff to have own email, login and access to calendar
Set up of users	A N end of term 3 2008	Need to create instruction list

Changes required from the Ministry of Education to support the school running GNU/Linux operating systems

Objective	Names and designation of people involved or spoken to	Information gathered
School management system	Musac?	Told that we could use a host server or have one windows computer to run Musac on. 16/7/08
ICT help desk support	Rang 0800 number and told no Linux support but if Ministry funded it then they would supply	
Journal Search		
enrol		
asttle		
ARBs		
Ricoh NZ about drivers for Linux		
Canon, xerox see above		

Envirethical considerations in running GNU/Linux operating systems		
Objective	To do	Information on how to....
Find out the power consumption of terminal server set up compared with stand-alone machines. How much electricity does the hard-drive use		
Need to find out how many PII or newer computers there are in the country and what is the expected amount of computers that will be taken to the landfill over the next few years		
Setup computers to shut down when not in use for less electricity consumption		
Ministry agreement with Microsoft and Apple and the cost to the NZ tax payer		

Other

Locate other schools and interested people - ?

Mark Johnson ICT in schools support

Media – ODT

Local Ministry and Wellington about goal

Press release –